BAMBOO™ ONE

User's manual for Windows® & Macintosh®

Using a pen
Customizing your pen
Troubleshooting
Using a tablet
Digital inking

Bamboo™ One

User's Manual for Windows® & Macintosh®

English version 1.0, May 15, 2007

Copyright © Wacom Co., Ltd., 2007

All rights reserved. No part of this manual may be reproduced except for your express personal use. Wacom reserves the right to revise this publication without obligation to provide notification of such changes. Wacom does its best to provide current and accurate information in this manual. However, Wacom reserves the right to change any specifications and product configurations at its discretion, without prior notice and without obligation to include such changes in this manual.

Reuse, recycling, and recovery. You are urged to recycle this product when replacing it with a newer product or when it has outlived its useful life by bringing it to an appropriate collection point for recyclable materials in your community or region. By doing this, you can help improve the environment of your community as well as minimize the potential negative effects created should any hazardous substance that may possibly be present within waste material reach the environment during the disposal process.

Within the European Union, users are required not to dispose of Waste Electrical and Electronic Equipment (WEEE) as unsorted municipal waste, according to the Directive 2002/96/EC of the European Parliament and of the Council of 27 January 2003, or the corresponding local laws of the Member States. Products for which this is applicable will be marked with the WEEE symbol shown at the beginning of this note unless this is not feasible because of the size or the function of the product. Wacom products are subject to the Directive 2002/96/EC and therefore you should always collect them separately and bring them to the appropriate collection point in your community or region.

Wacom pen tablet products comply with the European Union RoHS Directive 2002/95/EC (RoHS Directive).

Bamboo is a trademark and Wacom is a registered trademark of Wacom Co., Ltd.

Adobe and Reader are either registered trademarks or trademarks of Adobe Systems Incorporated in the United States and/or other countries. Microsoft, Windows, and Vista are either registered trademarks or trademarks of Microsoft Corporation in the United States and/or other countries. Apple, the Apple logo, and Macintosh are registered trademarks of Apple Computer, Inc., registered in the U.S. and other countries. Any additional company and product names mentioned in this documentation may be trademarked and/or registered as trademarks. Mention of third-party products is for information purposes only and constitutes neither an endorsement nor a recommendation. Wacom assumes no responsibility with regard to the performance or use of these products.

CONTENTS

About the manual 4
Navigating the manual 5
WORKING WITH BAMBOO ONE 6
Tablet features 6
Bamboo One pen 7
Setting up your work area 8
Using the cordless pen 9
Holding the pen 10
About the active area 11
Pointing 12
Clicking 13
Dragging 13
Using the pen buttons 14
Writing and Inking with pressure sensitivity 15
Eye-hand coordination exercise 15
Working with the tablet 16
CUSTOMIZING 17
Opening the control panel 17
Control panel overview 18
Control panel settings 18
Customizing the pen 19
Adjusting tip feel and double-click 20
Customizing the pen buttons 21
Button functions 22
Tablet tracking 26
Mapping to multiple monitors 28
Portion of screen area 28
Portion of tablet area 29
Setting mouse speed 29
TROUBLESHOOTING 30
Testing your tablet and pen 31
Troubleshooting tables 32
General problems 32
Windows-specific problems 34
Macintosh-specific problems 35
Technical support options 36
Obtaining driver downloads 37
APPENDIX 38
Pen and digital ink capabilities in Windows Vista 39
About the Windows Vista Tablet PC Input Panel 40
Caring for your tablet and pen 41
Replacing the pen tip 41
Uninstalling the tablet software 42
Product specifications 43
General specifications 43
Bamboo One tablet (model CTF-430) 43
Bamboo One pen (model FP-500) 43
Product information 44
Ordering parts and accessories 44
Radio and television interference 45
FCC notice 45
CE declaration 45
License and Warranties (Worldwide, except for Europe, Africa and Middle East) 46
Software License 46
Limited Warranty 46
Warranty Service in the U.S.A. and Canada 47
Warranty on Sales outside of the U.S.A. and Canada 48
License and Warranty (Europe, Africa and Middle East) 49
Software License Agreement 49
Entitlement to use the Software 49
Limited Warranty 49
GLOSSARY 51
INDEX 53

ABOUT THE MANUAL

This user's manual provides quick access to information about Bamboo One. Just click on a navigation button or highlighted word to move through the document. The information is common to Windows and Macintosh computers and Windows screen captures are shown, unless otherwise noted.

- In the contents you can go directly to a topic by clicking on it.
- Working with Bamboo One is the learning chapter, and introduces you to the many capabilities of your Bamboo One pen tablet. It describes the pen tablet, the features and functions of the Bamboo One pen, and includes exercises for new users. If you are not familiar with a pen tablet, this chapter gives you the basics.
- Customizing describes how you can change the control panel settings to optimize your Bamboo One pen and tablet for the way you like to work.
- Want to test your tablet and pen? Need troubleshooting guidelines? Troubleshooting is where you will find the answers to most common questions.
- The appendix includes a variety of information: an overview of the new pen and digital inking capabilities found in Microsoft Windows Vista, tips on caring for your tablet and pen, a how-to on uninstalling the software, your license and warranty, and more.

Note: This manual does not contain information on installing your tablet. Please refer to your product Quick Start Guide and to the automated software installer (located on the Bamboo One installation CD) for complete details on installing your pen tablet.

If you are new to electronic documentation, be sure to read navigating the manual.

Here are some other points to keep in mind:

- SMALL CAPITAL LETTERS are used to identify the names of keyboard keys, dialog boxes, and control panel options.
- Remember that you can always use your viewer zoom-in tool to increase the size of the manual on your display screen.
- The following kinds of information are not included with this product: information about your specific computer hardware or operating system, or information about your application software. Your best source for this information is the set of manuals and disks that came with your hardware, operating system, or application.
- Many applications have built-in support for pressure sensitivity. You can find a listing of applications that support this feature at Wacom's web site (see product information). For information on how best to use Bamboo One features within a specific application, refer to the instructions in that application's manuals.

NAVIGATING THE MANUAL

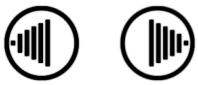
Use the navigation controls to move through the manual:

Go to front page.

CONTENTS Go to table of contents.

INDEX Go to index.

Go back to previous view.

 Page back, or page forward.

HEADING TEXT Go to beginning of section.

topic Go to topic.

Topic continued.

Adobe Reader provides you with additional tools for using and printing the manual. Refer to the Adobe Reader help for more information.

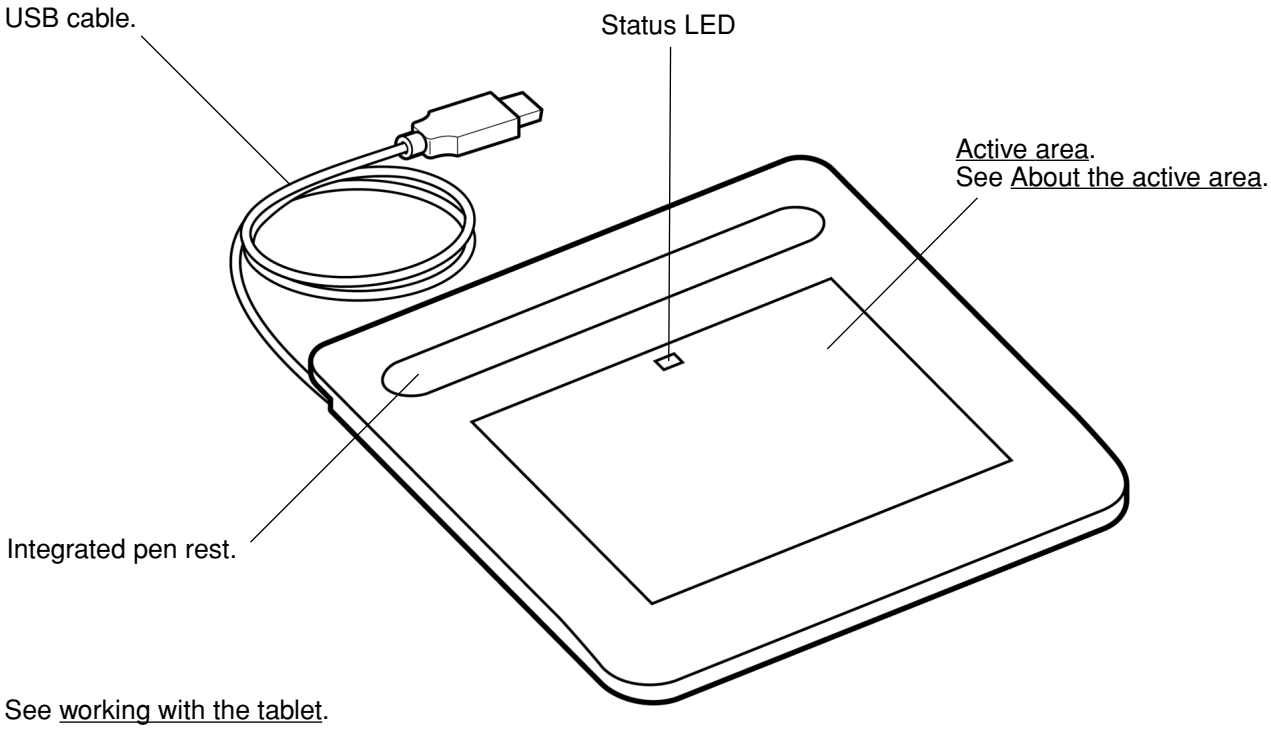
WORKING WITH BAMBOO ONE

This section introduces you to the Bamboo One pen tablet, which consists of two basic elements: a tablet that serves as your work area, and the Bamboo One pen you use on the tablet.

The quickest way to learn about your pen tablet is to become familiar with its appearance and features. If you are new to using a pen tablet and tablet input tools, read the following sections to learn about the Bamboo One pen and pen tablet.

Tablet features
Bamboo One pen
Setting up your work area
Using the cordless pen
Working with the tablet

TABLET FEATURES



See working with the tablet.

BAMBOO ONE PEN

Your Bamboo One pen is cordless and battery-free.

Pen buttons.

Replaceable nib (pen tip).

Bamboo One pen.
The pen is ideally suited to enhance your workflow by enabling the pen and digital ink features found within Microsoft Windows Vista and Office 2007.

Take advantage of digital mark-up for collaborative editing and use digital ink to take notes in applications that support handwriting recognition.

The pen is also an efficient freehand tool for pressure-sensitive image editing.

SETTING UP YOUR WORK AREA

To minimize fatigue, organize your work area so you can work comfortably. Position your tablet, pen, and keyboard so they are easily accessible without unnecessary reaching. Your monitor should be positioned so you can view it comfortably with a minimum of eyestrain. For best results, orient the tablet so the screen cursor follows the same direction as your hand movements on the tablet.

Here are some other points to keep in mind:

- Take short breaks between tasks to stretch and relax your muscles.
- Use a gentle grip when working with your pen.
- Alternate tasks and tools throughout the day.
- Maintain a good posture at all times. Minimize awkward postures and repetitive movements that cause discomfort.
- Change your position if you feel any discomfort due to your work position.

Note: Wacom makes no representation, promise or guarantee that Wacom products will cure or prevent, in whole or in part, mouse-induced repetitive stress symptoms, injuries or conditions. Individual results may vary. Always obtain competent medical advice to determine the most appropriate treatment for your specific situation.

See working with the tablet for more information.

USING THE CORDLESS PEN

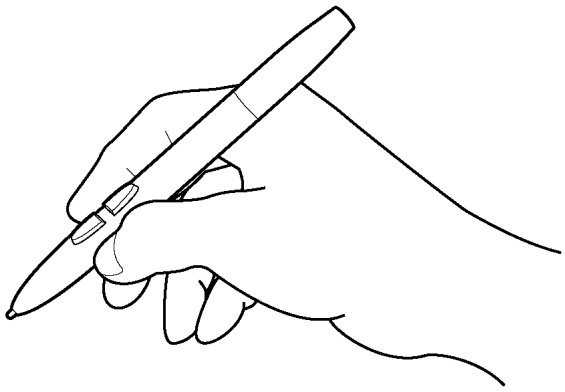
There are four basic techniques for using the pen: pointing, clicking, double-clicking, and dragging. If you are unfamiliar with using the pen, try the exercises on the following pages.

Important note for Windows Vista users: To make the most of your pen in Microsoft Windows Vista, be sure to study the documentation that came with your system, including the Windows Vista training tools and Tablet PC tutorial. You can access the Tablet PC Pen Training from the Vista START menu by choosing ALL PROGRAMS, TABLET PC, and TABLET PC PEN TRAINING.

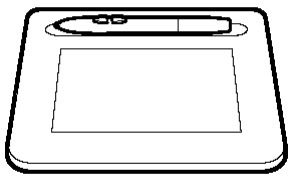
Holding the pen
About the active area
Pointing
Clicking
Dragging
Using the pen buttons
Writing and Inking with pressure sensitivity
Eye-hand coordination exercise

HOLDING THE PEN

Hold the Bamboo One pen like you would hold a normal pen or pencil. Make sure the pen buttons are in a convenient location where you can toggle them with your thumb or forefinger, but not accidently press them while drawing or navigating with the pen. You can tilt the pen in any way that feels most comfortable.



Position for writing, drawing, and navigating.



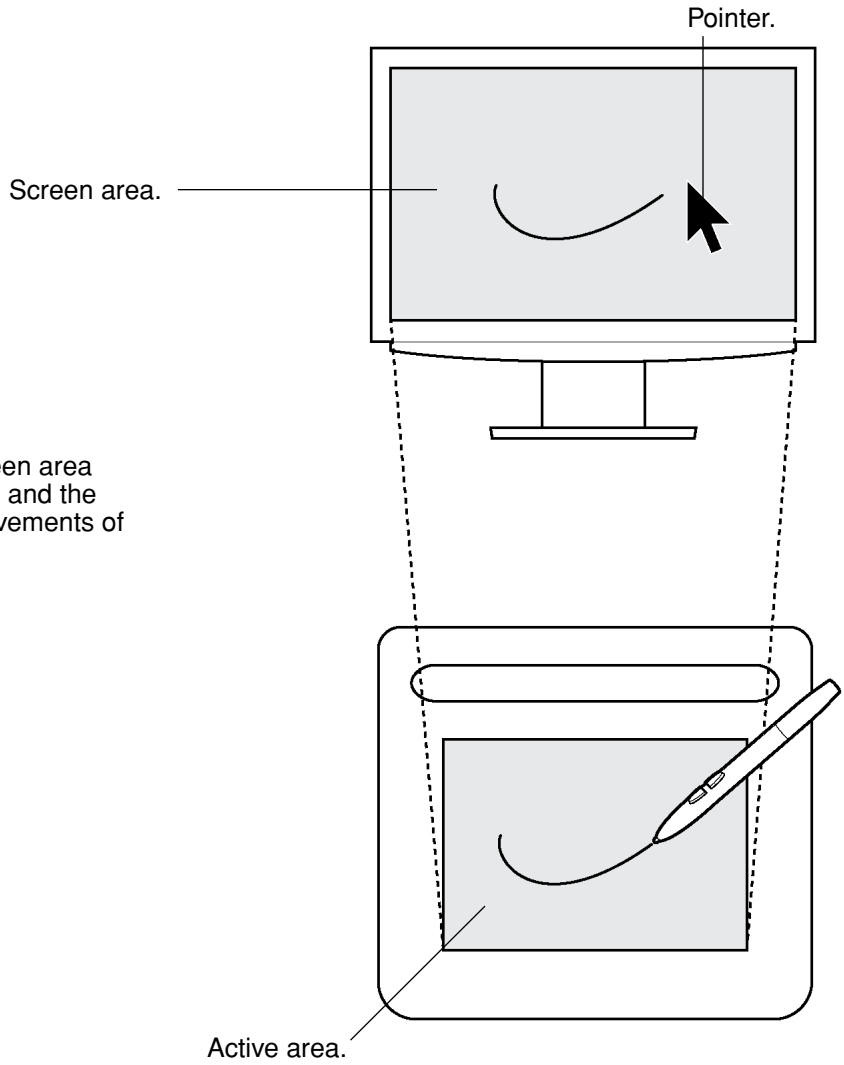
Use the integrated pen rest to store the pen between tasks. This also makes the pen available for quick, easy access when you are working. The rest allows horizontal placement of the pen.

Important: When the pen is not in use, place it in the pen rest or lay it flat on your desk. To maintain the sensitivity of your pen tip, do not store the pen in a container where it will rest on its tip. Leaving the Bamboo One pen on the tablet active area may interfere with screen cursor positioning when using other pointing devices. Also, leaving the pen on the tablet active area when not in use can prevent your computer from going to sleep.

ABOUT THE ACTIVE AREA

The active area is the area of the tablet that senses pen movement. The screen area is the corresponding area on the screen.

The tablet active area is a mapped representation of your computer screen (a one-to-one relationship), and uses the entire screen. Wherever you place the pen on the tablet, the screen cursor will jump to the corresponding point on the screen. This is the default setting for the pen.



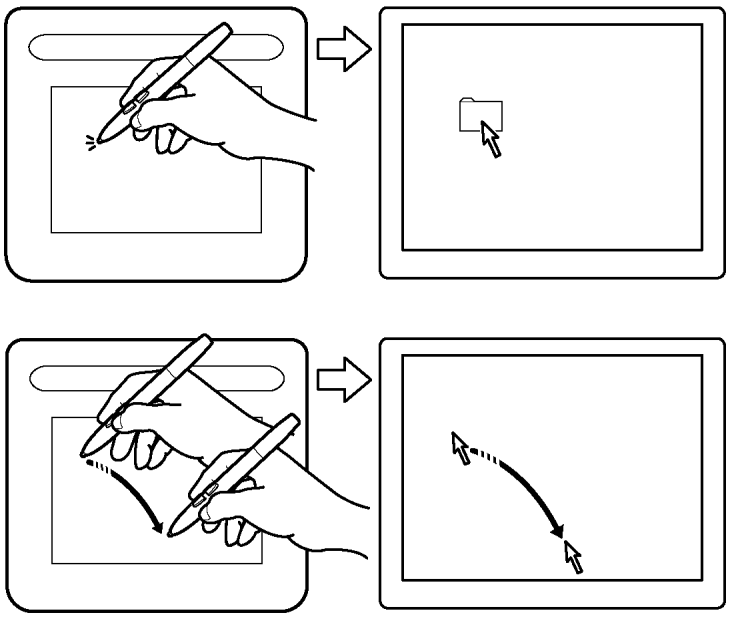
The pointer in the screen area indicates pen position, and the pointer follows the movements of the pen.

POINTING

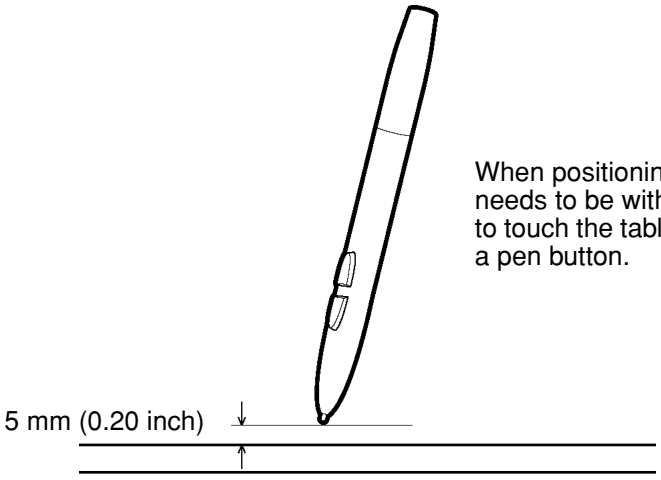
The Bamboo One pen positions the pointer (or cursor) on your screen. You can position the screen cursor two different ways, like a pen (PEN MODE) or like a mouse (MOUSE MODE).

- In PEN MODE, the tablet active area is a mapped representation of your computer screen; wherever you place the pen on the tablet, the screen cursor will jump to the corresponding point on the screen. This is the default setting for the pen.
- In MOUSE MODE, you move the cursor with a "pick up and slide" motion similar to using a traditional mouse.

Try moving the screen cursor by lifting the pen and placing the pen tip in a new location on the tablet. The cursor instantly jumps to the new location.



When positioning the screen cursor and operating a pen button, the pen tip needs to be within 5 mm (0.20 inch) of the tablet surface. You do not need to touch the tablet with the pen tip in order to move the screen cursor or use a pen button.



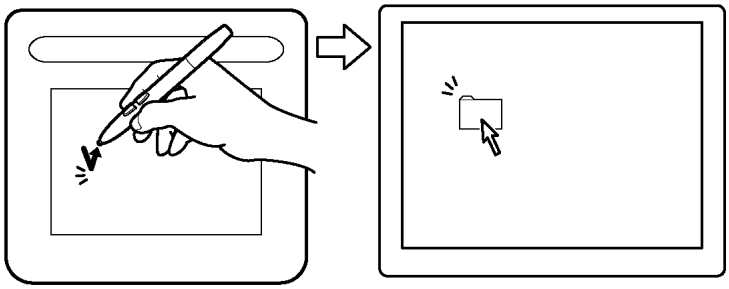
Hints:

- If you find that using a pen is somewhat difficult, try the eye-hand coordination exercise.
- Pointing is easier when you orient the tablet so the screen cursor follows the same direction as your hand movements on the tablet.

CLICKING

You typically click to highlight or select something on the screen, and double-click to open it.

Clicking. Tap the pen tip once on the tablet, or press the pen tip on the tablet with enough force to register a click. (If CLICK SOUND is selected in the Pen Tablet control panel and your computer speakers are on, then you will hear a "click" sound when the pen tip is pressed hard enough to generate a button click.) Try clicking on a folder icon by moving the screen cursor over the icon and pressing down on the pen tip. The folder should highlight when you press.



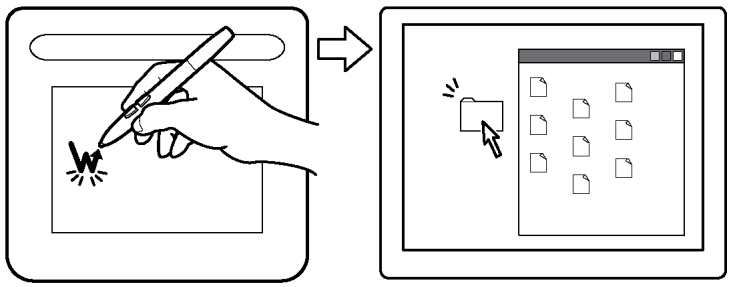
Hint: You can configure Windows to select when the pen is over an icon and to launch the icon with a single click. To turn on this feature, first open a folder.

For Windows Vista, from the ORGANIZE pull-down menu choose FOLDER AND SEARCH OPTIONS.... From the GENERAL tab select SINGLE-CLICK TO OPEN AN ITEM (POINT TO SELECT).

For other Windows versions, from the TOOLS pull-down menu choose FOLDER OPTIONS.... From the GENERAL tab select SINGLE-CLICK TO OPEN AN ITEM (POINT TO SELECT).

Double-clicking. Quickly tap the tablet twice in the same place with the pen tip. This is like clicking twice with a mouse button. Try double-clicking on a folder icon to open it.

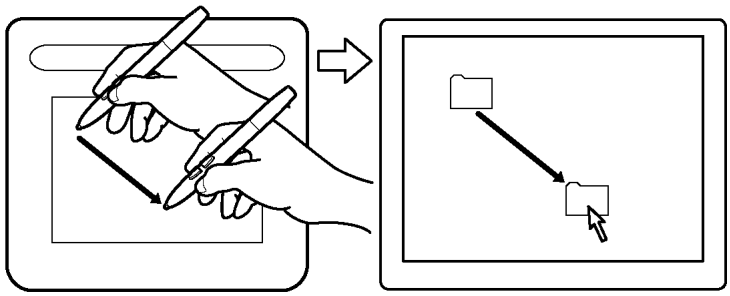
Hint: Set a pen button to DOUBLE CLICK. This is easier than tapping twice with the pen tip.



DRAGGING

To drag, first point to an object. Then press the pen tip to the tablet and slide it across the tablet surface. The selected object will move across the screen. To select text, move the screen cursor to the beginning of a text line, then drag the pen across the tablet until the text is highlighted.

First, try moving an icon on the screen. Then, within a document, select some text by pressing and dragging the pen tip across the text.



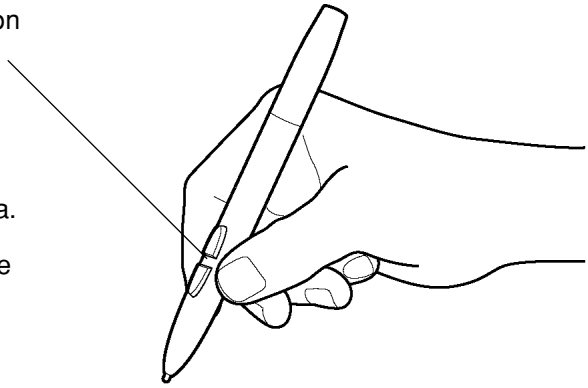
USING THE PEN BUTTONS

The Bamboo One pen has two buttons. Each button has a programmable function that is selected when you press the button. You can use a pen button whenever the pen tip is within 5 mm (0.20 inch) of the tablet active area. You do not have to touch the pen tip to the tablet in order to use a button.

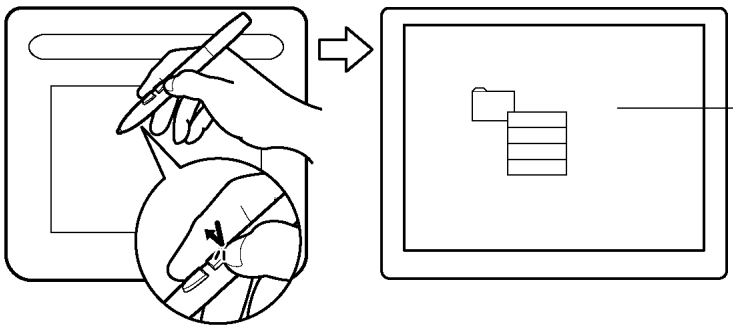
The upper pen button is set to RIGHT CLICK, and the lower button is set to PAN/SCROLL by default.

- Use RIGHT CLICK to bring up application-specific or icon-specific menus.
- PAN/SCROLL lets you position a document or image in any direction within the active window by pressing the pen button and moving the pen tip across the tablet's active area. As you move the pen tip, the document or image is repositioned to follow the direction of pen movement on the tablet. Release the pen button or lift the pen tip from the tablet surface when you are done.

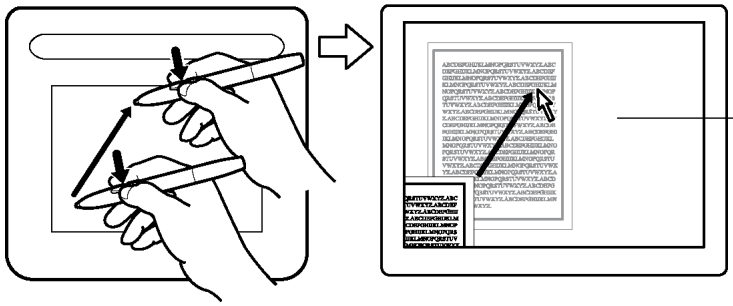
  In some application windows the document will precisely follow the screen cursor as you move the pen tip, while in others it will simply move in the same general direction as the screen cursor.



Hint: Set a pen button to DOUBLE CLICK. This is easier than tapping twice with the pen tip.



Example of right click on computer display.

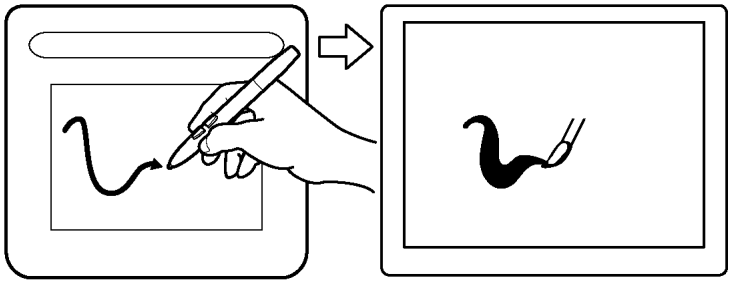


Example of pan/scroll movement on computer display.

To assign new button functions, see customizing the pen buttons.

WRITING AND INKING WITH PRESSURE SENSITIVITY

The Bamboo One pen responds to your hand movements, enabling you to create natural-looking pen and brush strokes. The digital ink tools in Microsoft Windows Vista and Office 2007, as well as the drawing tools in many graphics applications, respond to the pressure you place on the pen. For example, sliders are used in some applications to vary line characteristics (width, color, and opacity). These characteristics can be controlled much better by the pen's pressure sensitivity – you can vary line width, blend colors, and change opacity with the pressure you exert upon the pen.



To write, ink, or sketch with pressure sensitivity, move the pen along the surface of the tablet while applying various amounts of pressure downward on the tip of the pen. Press hard for thick lines or dense color. Press gently for thin lines or softer color. Note that some applications require that you first select a pressure-sensitive tool from the application's tool palette.

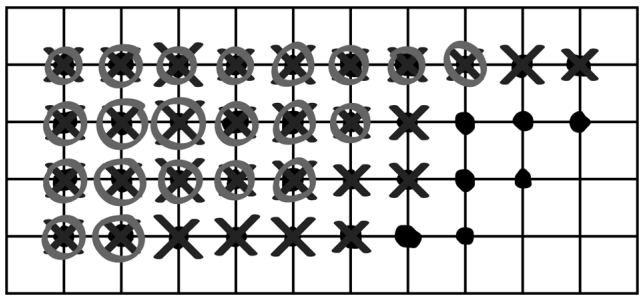
To adjust the tip feel, see adjusting tip feel and double-click.

Visit our web site for a list of applications that support pressure. See product information.

EYE-HAND COORDINATION EXERCISE

This exercise is designed to retrain your eye-hand coordination for using the pen:

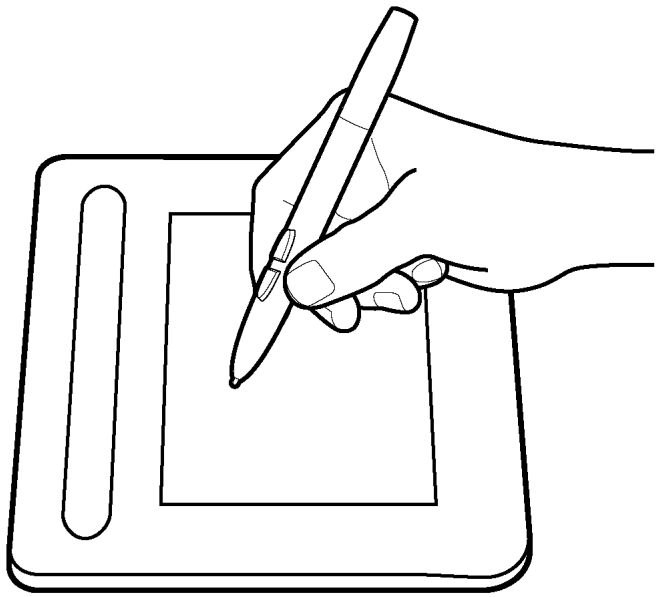
1. Open any graphics application. Use the line tool to sketch a rectangular grid with line spacings of about 20-25 mm (3/4 to 1 inch). You can use your traditional mouse to do this.
2. Choose a free-hand tool in your application and use the pen to add a dot at each grid intersection.
3. Place an X at each grid intersection.
4. Now sketch a circle around each intersection. Your screen should look like this:



5. Clear your screen and make a simple illustration of your own. The more you use your pen, the easier drawing and navigation will become.

WORKING WITH THE TABLET

The middle area of the tablet is the working, or active, area for the pen. Rest your hand on the tablet and then work with the pen on the active area of the tablet just as if you were using a ball point pen on a piece of paper. Wherever you place your pen on the tablet active area, the screen cursor will jump to the corresponding point on the screen. See using the cordless pen for more information.



CUSTOMIZING

After you master the basics of using your Bamboo One pen tablet, you may want to customize the way the pen or tablet works. This chapter describes how to use the Pen Tablet control panel to adjust your tablet and pen settings.

Opening the control panel
Control panel overview
Control panel settings

OPENING THE CONTROL PANEL

To open the control panel, use the Bamboo One pen on the tablet:

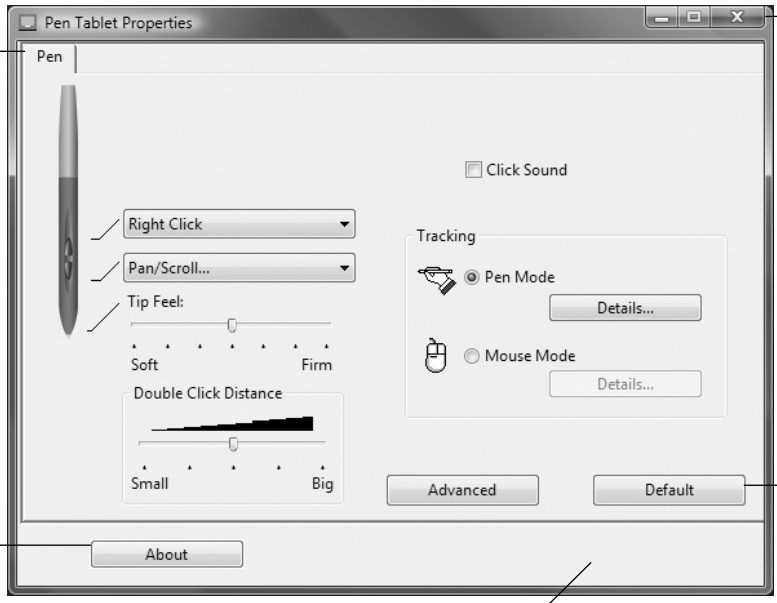
- **Windows.** Click on the Windows START button and choose ALL PROGRAMS. (For Windows 2000, choose the PROGRAMS group.) Then select TABLET and choose the PEN TABLET option.
- **Macintosh.** Open SYSTEM PREFERENCES from either the Dock, the Apple menu, or from the APPLICATIONS folder. Then click on the PEN TABLET icon.

After you have opened the Pen Tablet control panel, you can begin customizing Bamboo One.

Note: When more than one Wacom tablet is installed on a single computer, any changes made in the Pen Tablet control panel will be applied only to the tablet that was last used before opening the control panel.

CONTROL PANEL OVERVIEW

Use the Pen Tablet control panel to customize your Bamboo One pen and tablet.



Displays customizable settings.

Closes the control panel.

Resets the tab to its default settings.

Displays information about the control panel and driver.

Displays this User's Manual.

Experiment with different settings to find what works best for you. Any changes you make will take effect immediately. Click DEFAULT to return a tab to the factory settings.

Tool Tips are available for most control panel items. Simply position the screen cursor over an item and let it rest there; in a few moments the Tool Tip will pop up.

Your keyboard tab and arrow keys can be used to navigate the control panel.

CONTROL PANEL SETTINGS

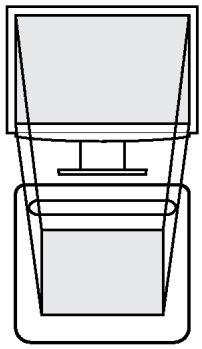
The following sections provide detailed information about the control panel. They also contain useful customizing tips.

Customizing the pen
Tablet tracking

CUSTOMIZING THE PEN

First open the Pen Tablet control panel to choose from the available options.

Customizing the pen buttons

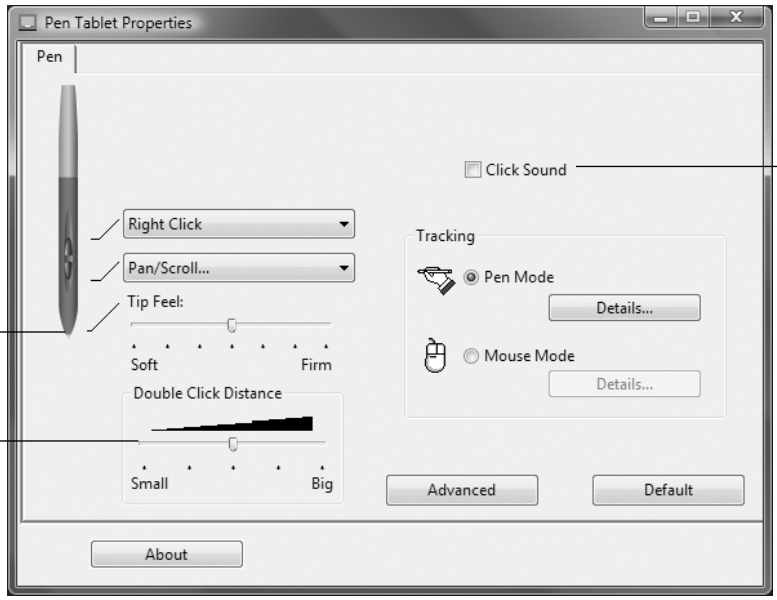


Tablet tracking

Adjusting tip feel and double-click

ADJUSTING TIP FEEL AND DOUBLE-CLICK

Open the Pen Tablet control panel. To create broad inking strokes or to click with a light touch, use a soft tip setting. For maximum control while inking thin lines, use a firm tip setting.



Customizes the amount of pressure needed to click, write, or ink. Drag the slider to a softer or firmer setting.

Adjusts the size of the double-click area and the double-click speed. A larger setting makes double-clicking easier.

When checked, an audible "click" sound will be heard whenever a pen click occurs and your computer speakers are turned on.

Hints:

- Use a soft TIP FEEL for a wider range of pressure values with most pressure-sensitive applications.
- In some applications, a soft pressure setting can make the pen overreact – any small press on the pen is magnified on the screen. If you experience this, try a firmer TIP FEEL setting.
- To make double-clicking easier, expand the tap area that accepts a double-click (the double-click distance).

  Note: A large double-click distance may cause a delay at the beginning of brush strokes in some drawing applications. This may also cause a delay at the beginning of a drag action or inking stroke. If you notice such effects, try setting a smaller double-click distance and using a pen button to double-click (see using the pen buttons).

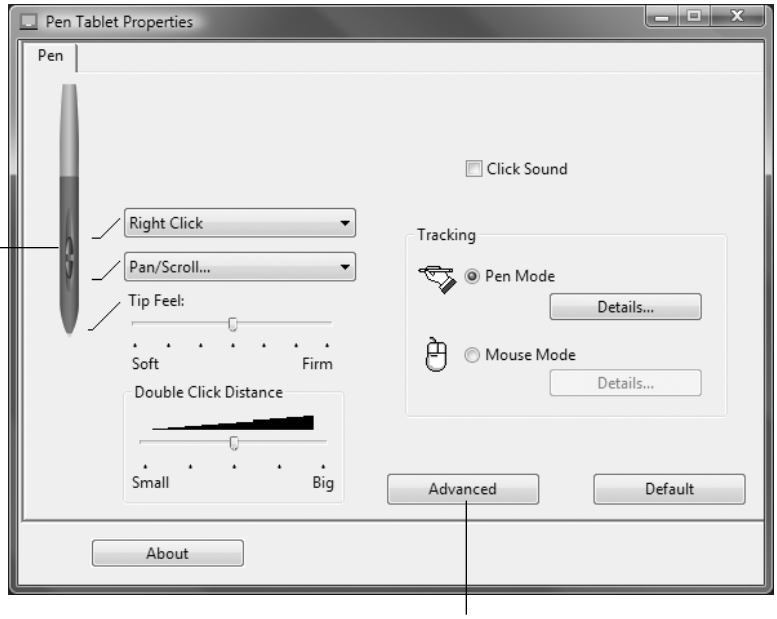
CUSTOMIZING THE PEN BUTTONS

Open the Pen Tablet control panel to change the functions assigned to the pen buttons. Each pen button can be set for a variety of mouse functions; the pull-down menus enable you to choose the function that will be performed.

Select the function to perform when pressing the upper or lower pen button.

When you bring the pen tip within 5 mm (0.20 inch) of the tablet surface without touching the tablet and press the upper or lower pen button, the selected function occurs.

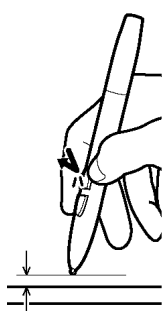
Hint: To make double-clicking easier, set a pen button to double-click automatically by selecting DOUBLE CLICK.



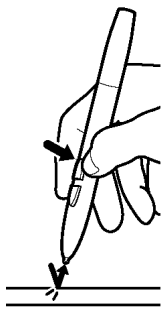
Advanced Settings
Side Switch Mode
Hover Click
To do a right click or other click function, hold the pen tip close to the tablet and press the side switch.
Click & Tap
Press the side switch and tap the pen tip to the tablet to do a right click or other click function. This is the default setting for Tablet PCs.
Note: This setting applies for all pens on all tablets.
Cancel
OK

Note: You can change the SIDE SWITCH MODE for the way you like to use the pen when making right-clicks or other click functions. Click on the ADVANCED button. In the dialog box that appears:

- Select HOVER CLICK to perform click functions without touching the pen tip to the tablet surface.
- When CLICK & TAP is selected, you must first press the pen button and then touch the pen tip to the tablet surface in order to perform a click function. CLICK & TAP enables the precise placement of your click functions.



Hover click.



Click tap.

BUTTON FUNCTIONS

The following options are available for your pen button settings.

CLICK. Default setting for the pen tip. This option simulates a primary mouse button click.

DOUBLE CLICK. Simulates a double-click. For easier double-clicking, use this function instead of tapping twice with the tip of your pen.

MIDDLE CLICK. Simulates a middle mouse button click.

RIGHT CLICK. Simulates a right mouse button click, which displays a context menu.

CLICK LOCK. Simulates holding down the primary mouse button. Press the tool button once to initiate click lock. Press the button again to release click lock. Click lock is useful for dragging objects or selecting blocks of text.

BACK. Simulates a 4th mouse button click, which typically issues the BACK command in browser applications.

FORWARD. Simulates a 5th mouse button click, which typically issues the FORWARD command in browser applications.

PAN/SCROLL. Enables you to move a document or image in any direction within the active window using your Bamboo One pen.

INK TOGGLE. (Macintosh.) Toggles the INK ANYWHERE function of Inkwell on and off. Inkwell automatically recognizes and converts your handwriting into text and inserts it into a document. Note that Ink must be turned on for this function to work. See your Macintosh help for information on working with Inkwell.

TABLET PC INPUT PANEL. (Tablet PCs and Windows Vista systems that support the Tablet PC Input Panel.) Opens the Tablet PC Input Panel when you press a tool button set to this function.

JOURNAL. (Windows Vista and Tablet PC systems that include Microsoft Journal.) Opens Microsoft Journal.

MODE TOGGLE.... Toggles between PEN MODE and MOUSE MODE. See setting mouse speed for details.

MODIFIER.... Enables you to simulate modifier keys.

KEYSTROKE.... Enables you to simulate keystrokes.

OPEN/RUN.... Opens an application, file, or script.

PRESSURE HOLD. Locks the pressure at the current pressure level until the button is released. For example, you can paint with pressure sensitivity until you reach the brush size that you like. You can then press the button and continue painting with the same size brush until the button is released.

SHOW DESKTOP. Minimizes all open windows to display a clean desktop.

SWITCH APPLICATIONS. Brings up the application switching dialog with focus on the next open application. On Windows Vista systems running Aero, Flip 3D will be activated with focus on the next open application.

EXPOSÉ. (Macintosh.) Tiles all open windows.

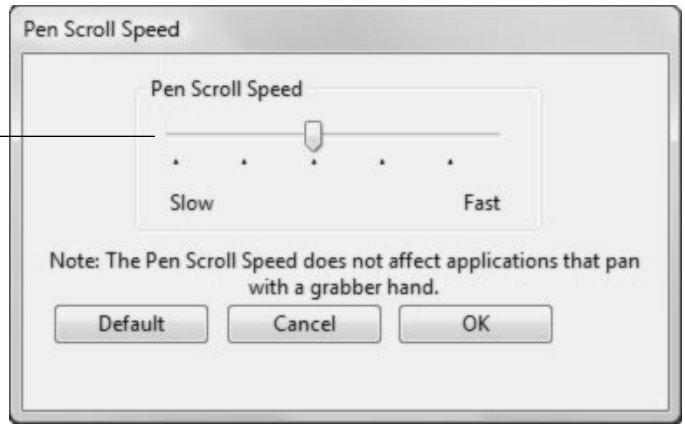
DISABLED. Disables the button function.

DEFAULT. Returns a button to its default setting.

- **PAN/SCROLL.** Lets you position a document or image in any direction within the active pane by pressing a pen button set for PAN/SCROLL and then moving the pen tip across the tablet's active area.

When you select PAN/SCROLL, the PEN SCROLLING SPEED dialog box prompts you to set a scrolling speed that will be used in applications that do not support grabber hand (pixel-level) panning within a document or image.

A slower setting reduces the scroll rate and is useful for close-up and detail work where you need precise control of the image.



- **KEYSTROKE....** Enables you to simulate keystrokes. Selecting this option displays the DEFINE KEYSTROKE dialog box where you can enter a keystroke or keystroke sequence to play back.

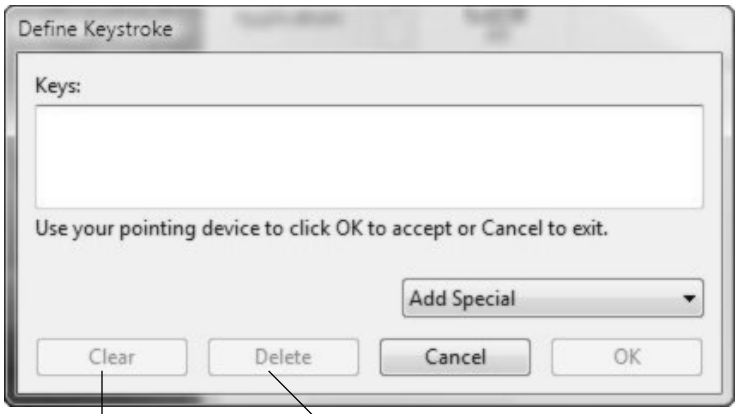
You can manually enter a keystroke or keystroke combination in the KEYS entry box. Keystroke combinations can include letters, numbers, function keys (such as F3) and modifier keys (such as SHIFT, ALT, or CTRL for Windows, or SHIFT, OPTION, COMMAND, and CONTROL for Macintosh).

You can also select special keystrokes or keystroke combinations from the ADD SPECIAL drop-down menu.

After defining a keystroke sequence, click OK.

> **Important:** Because the ENTER (Windows) and RETURN (Macintosh) keys can be selected as a defined keystroke, it cannot be used to select OK. You must use your Bamboo One pen to click on the OK button.

If prompted, enter a name for the keystroke definition. The name will be displayed with the respective control.



Deletes only the last entry in the keystroke entry box.

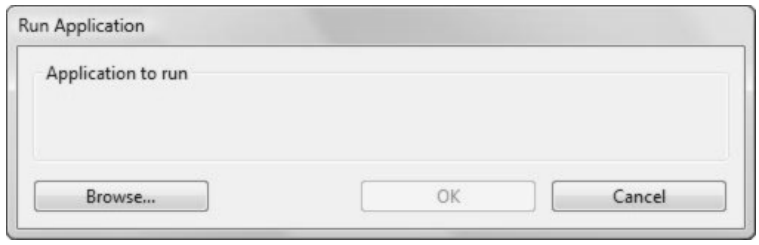
Clears the keystroke entry box.

- **OPEN/RUN....** Opens a dialog box where you can select a specific application, file, or script to launch.

  Click BROWSE... to locate an application, file, or script to launch. The selection you make appears in the APPLICATION TO RUN box.

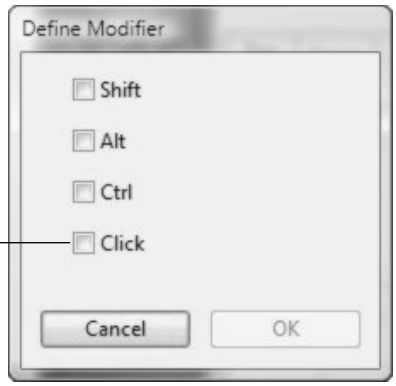
  Click OK to accept the selection. The dialog box will close and the OPEN/RUN... option will be assigned as your tool button option.

  The next time you press the tool button, the defined application, file, or script will launch.



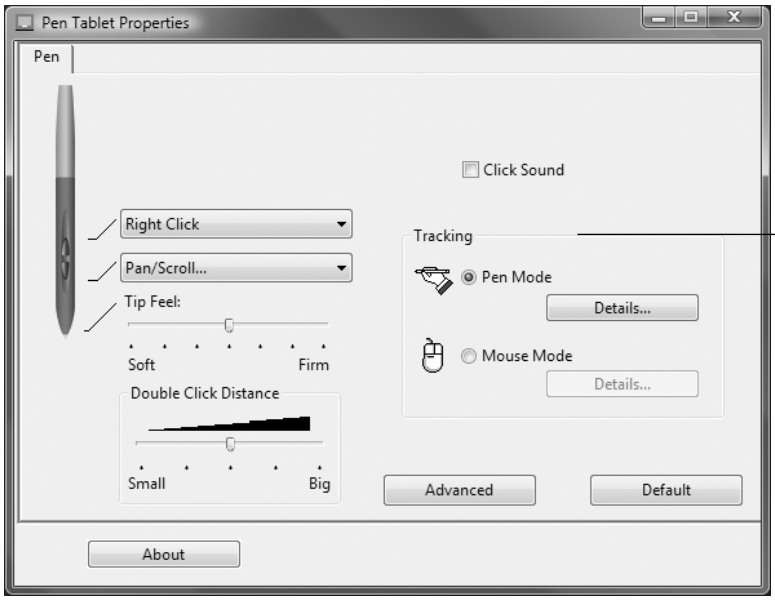
- **MODIFIER....** Enables you to assign modifier key(s) (such as SHIFT, ALT, or CTRL for Windows, or SHIFT, OPTION, COMMAND, and CONTROL for Macintosh). Many applications use modifier keys to constrain the size or placement of objects.

In addition to choosing one or more modifier key options, you can select the CLICK box if you want a mouse click to occur whenever you press the tool button.



TABLET TRACKING

The tablet TRACKING options enable you to define the relationship between pen movement on the tablet surface and cursor movement on the monitor screen. By default the entire active area of the tablet maps to the entire monitor. If more than one monitor is in use the tablet will map to all monitors. See mapping to multiple monitors.

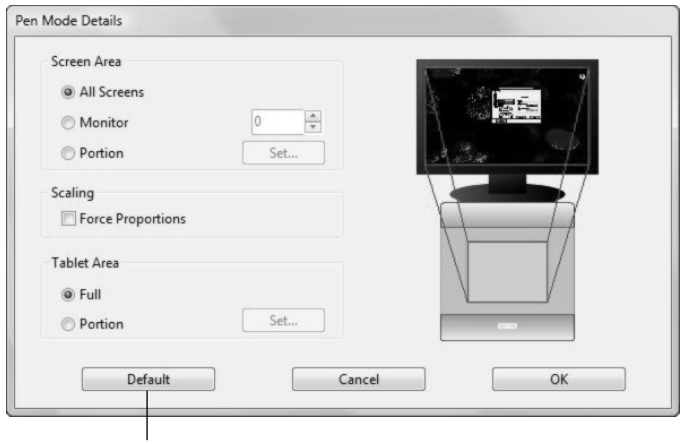


The TRACKING mode you select controls how the screen cursor moves:

- Select PEN MODE to set the cursor so that its movement corresponds with the position of your Bamboo One pen on the tablet – wherever you place your pen on the tablet, the cursor will jump to a corresponding point on the screen. This is known as absolute positioning, and is the default setting for the Bamboo One pen. Click DETAILS... to customize the tablet mapping.
- Select MOUSE MODE to move the screen cursor with a "pick up and slide" motion similar to using a traditional mouse. Click DETAILS... for setting mouse speed.

Note: If you frequently switch between PEN MODE and MOUSE MODE, you can assign the MODE TOGGLE... function to one of your pen buttons.

When you click on the PEN MODE DETAILS... button, the PEN MODE DETAILS dialog box is displayed.



Returns settings to their factory defaults.

Use the SCREEN AREA options to select a screen area for tablet to screen mapping.

- ALL SCREENS. The entire monitor(s) area is mapped; this is the default setting. See mapping to multiple monitors for more information.
- MONITOR. The entire area of a single monitor that you choose is mapped.
- PORTION. A portion of the desktop area is mapped. Click SET... to open a dialog box where you can set the portion of screen area.

FORCE PROPORTIONS. Check or uncheck the box to determine the tablet to screen mapping relationship.

- When unchecked, the correct scale or proportions are not maintained. The selected tablet area is mapped to the selected display area. An inked word on the tablet may appear distorted on the display screen. This is the default setting.
- When checked, the correct vertical and horizontal proportions are maintained between the tablet and display. Inking a word on the tablet results in a correctly proportioned word on the display screen. Depending on your settings, some portions of the tablet active area may no longer be usable when this option is selected.

Use the TABLET AREA options to select a tablet area for tablet to screen mapping.

- FULL. The entire active area of the tablet is mapped. This is the default setting.
- PORTION. A portion of the tablet area is mapped. Click SET... to open a dialog box where you can set the portion of tablet area.

MAPPING TO MULTIPLE MONITORS

If your computer has more than one monitor, Bamboo One will map to your monitors based upon how they are configured in the DISPLAY PROPERTIES control panel. If ALL SCREENS is selected and you are in extended monitor mode, the tablet will map to all monitors as if they were one large display. If the monitors are in mirror mode, the tablet will map to the entire space on each monitor and the screen cursor will be displayed on each monitor simultaneously.

See your hardware and operating system documentation for details on configuring your computer and operating system for use with multiple monitors.

PORTION OF SCREEN AREA

The tracking options in the PEN MODE DETAILS dialog box allow you to define which portion of the display screen your tablet will map to:

- **ALL SCREENS.** Maps the entire monitor(s) area. This is the default setting.
- **MONITOR.** Maps the entire area of a single monitor that you choose.
- **PORTION.** Allows you to select a portion of the display for tablet to screen mapping. Click SET... to open the PORTION OF SCREEN dialog box.

Choose a method for defining a portion of the display:

- Drag corners of the foreground graphic to select the screen area.
- Move the screen cursor to select the screen area. Select the CLICK TO DEFINE SCREEN AREA button. As you define PORTION OF SCREEN, follow any MESSAGE prompts to set the portion of your display screen that will be used for mapping.

After defining a portion of the screen, you may need to use a different input device to access other portions of the screen area.

Portion of Screen
Choose one of the following two ways to define Portion of Screen:
1. Drag Handles
Position Rectangle For Screen
2. Select Area with Screen Cursor
Click to Define Screen Area
Message:
Cancel
OK

PORTION OF TABLET AREA

The tracking options in the PEN MODE DETAILS dialog box allow you to define the tablet area that will be mapped to the screen area:

- **FULL.** Maps the entire active area of the tablet for tablet to display mapping. This is the default setting.
- **PORTION.** Allows you to select a portion of the tablet active area for tablet to screen mapping. Click SET... to open the PORTION OF TABLET dialog box.

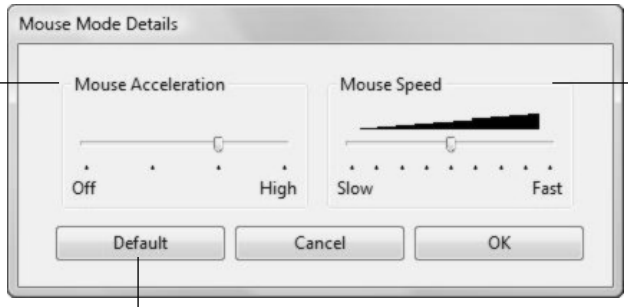
Choose a method for defining a portion of the tablet:

- Drag corners of the foreground graphic to select the tablet area that will be mapped to your selected screen area.
- Use your pen on the tablet to select the tablet area. Select the CLICK TO DEFINE TABLET AREA button. As you define PORTION OF TABLET, follow any MESSAGE prompts to set the portion of your tablet that will be used for mapping.

SETTING MOUSE SPEED

To change the screen cursor acceleration and speed when in MOUSE MODE, click on the MOUSE MODE DETAILS... button (located on the PEN tab).

Sets the screen cursor acceleration when in MOUSE MODE.



Sets the screen cursor tracking speed when in MOUSE MODE.

Returns settings to their factory defaults.

Note: The dialog box will also appear when you set a tool button to MODE TOGGLE.... Although MOUSE MODE settings can be accessed from a number of different locations within the control panel, only one ACCELERATION and SPEED setting can be made.

TROUBLESHOOTING

Most of the time your tablet will work flawlessly. But if you are having trouble, Wacom recommends you do the following:

1. If the pen tablet driver failed to load properly, first perform the recommended action in any error message that may appear on your screen. If that does not solve the problem, refer to the troubleshooting procedures in this chapter.
2. Look in the troubleshooting tables. Your problem may be described there and you can try the solution offered.
3. Open the pen tablet Read Me file for late-breaking information.
4. Test your tablet and pen. See testing your tablet and pen.
5. If you are having a compatibility conflict between Bamboo One and a new hardware or software product, check if a newer pen tablet software driver is available. See obtaining driver downloads for information on downloading an updated software driver. Wacom periodically updates the software driver to maintain compatibility with new products.
6. Check the FAQs (Frequently Asked Questions) on the Wacom web site for your region.
7. If you have tried the suggestions in this manual and still cannot resolve the problem, then contact Wacom for technical support. See technical support options and the Read Me file for information on where to obtain support for your region.

Testing your tablet and pen
Troubleshooting tables
Technical support options
Obtaining driver downloads

TESTING YOUR TABLET AND PEN

1. Turn on your computer and wait until the system has fully loaded.
2. **Check the tablet.** The tablet's orange status LED will light whenever the tablet is properly connected and your computer has registered it as a USB device. If the LED is on, continue with step 3.

   If not:

   - Make sure the tablet USB cable is securely connected to an active USB port on your computer.
   - If you are connecting the tablet to a USB hub (or hub device such as a keyboard with USB ports), be sure the USB hub is properly connected to your computer and is active.
   - Check the cable for damage.
   - Connect the tablet to a different USB port or try connecting to the USB port on another computer.
   - If the status LED does not illuminate after your computer is on and has finished booting up, your USB port may be disabled. Verify that you have connected the tablet to an active USB port.
3. **Check the pen** by first opening the Pen Tablet control panel. Click on the DEFAULT button to return the pen to its default settings. Next:
   - Touch the pen tip to the tablet active area. The status LED on the tablet should change from orange to green each time the tip makes contact with the tablet surface.
   - Without applying pressure to the pen tip, hold the pen tip within approximately 5 mm (0.20 inch) of the tablet surface and press each pen button in turn. The status LED should again change from orange to green each time a pen button is pressed
   - While still within proximity, but without touching the tablet surface, move your pen across the active area of the tablet. The screen cursor should move in the corresponding direction on your monitor or display screen.
4. If any of these tests fail you may have defective hardware. See technical support options.
5. After testing, use the Pen Tablet control panel to reconfigure your tablet and pen for any custom settings you may originally have been using.

TROUBLESHOOTING TABLES

If you encounter problems with your Bamboo One pen or tablet, refer to the following tables. Your problem may be described here, and you can try the solution offered. Be sure you refer to the Read Me file for the latest information updates.

For additional information, visit Wacom's web site at http://www.wacom.com/productsupport and follow the links to the FAQs.

General problems
Windows-specific problems
Macintosh-specific problems

GENERAL PROBLEMS

The computer does not have an available USB port.	Check if there is an available USB port on a USB hub device. If not available you will need to add a USB hub or USB card.
The tablet status LED does not illuminate.	Verify that your tablet's USB cable is properly connected to an active USB port. If your are connecting to a USB hub device, make sure the hub is connected to an active USB port and that the hub is active.
The pen works only in MOUSE MODE, and does not ink or sketch with pressure sensitivity.	The tablet driver software was not installed or did not load properly. Make sure the tablet driver software is installed and functioning. Insert the Bamboo One installation CD into your computer and install the driver software for the tablet.
The pen does not ink or sketch with pressure sensitivity.	Some applications require that you turn on the pressure capabilities within the application or the selected tool before the pen will respond as a pressure-sensitive tool.
Clicking is difficult.	Try using a lighter TIP FEEL (see adjusting tip feel and double-click). Select the CLICK SOUND option so that you can hear when the pen registers a mouse click. Your computer speakers must be turned on and the volume audible before you can hear CLICK SOUND.
Double-clicking is difficult.	Be sure you are quickly tapping the tablet twice in the same place on the tablet active area. Using a pen button to double-click is recommended (review the techniques in clicking). See adjusting tip feel and double-click: • Try increasing the DOUBLE CLICK DISTANCE. • Try using a lighter TIP FEEL. **Windows:** Try setting your system to launch programs with a single click. See clicking.

The pen selects everything, will not stop selecting.	Open the Pen Tablet control panel. Move the TIP FEEL slider toward FIRM. If this does not help, see testing your tablet and pen.
You notice a screen delay at the beginning of pen or inking strokes.	Try decreasing the DOUBLE CLICK DISTANCE (see adjusting tip feel and double-click).
You have to press hard with the pen when clicking, drawing, or writing.	Open the Pen Tablet control panel and go to the Pen tab. Move the TIP FEEL slider toward SOFT.
The pen tip does not function.	Be sure you are using the pen that originally came with your pen tablet. Other pens may not function properly on the Bamboo One tablet. See testing your tablet and pen to verify pen operation. If any of the tests fail you may have defective hardware.
The upper or lower pen button does not work.	Be sure you press the pen button when the pen tip is within 5 mm (0.20 inch) of the tablet active area – do this without pressing down on the pen tip. In the Pen Tablet control panel, click on the ADVANCED button. If CLICK & TAP is selected, you will need to first press the pen button and then touch the pen tip to the tablet surface in order to perform a click function. See customizing the pen buttons. From the Pen Tablet control panel, verify that the pen button is set to the function you are expecting to occur. See testing your tablet and pen to verify pen operation. If any of the tests fail you may have defective hardware.
The screen cursor jumps back.	Do not place the pen on the tablet active area when it is not in use or when you are using another pointing device. Leaving your pen on the tablet active area may interfere with screen cursor positioning when using other input devices.
Cannot move the cursor where you want to on the screen, or the line you are sketching does not line up with the location of the pointer in paint applications.	Open the Pen Tablet control panel. Verify that PEN MODE is selected. If this does not help, click on the DEFAULT button to reestablish the default tablet to screen mapping. If you are still having difficulty, remove the tablet preferences (see next tip).

You suspect the tablet preferences may be corrupted, or want to make certain that all settings are at their factory defaults.	Delete the tablet preferences as follows: **Windows:** Click the START icon and select ALL PROGRAMS. Then select TABLET or PEN TABLET and TABLET or PEN TABLET PREFERENCE FILE UTILITY. In the dialog box that appears, click on the REMOVE MY PREFERENCE FILE button to delete the preferences for the current user. To delete preferences for multiple users on Windows Vista or XP systems, click on the REMOVE ALL PREFERENCE FILES button. Note that administrator rights are required to delete preferences for all users. Relaunch any currently open tablet-aware applications that you may be running. **Macintosh:** For a single user, delete the tablet preferences by first choosing your HOME folder from the GO menu. Then open your home LIBRARY folder. Within your home LIBRARY folder, open the PREFERENCES folder and delete the COM.WACOM.PENTABLET.PREFS file. Log out, then log back in. When the tablet driver loads it will create a new preferences file with the factory defaults. For multiple users, delete all tablet preferences by first opening the main APPLICATIONS folder. Then open the TABLET folder and run the REMOVE PEN TABLET utility. When the utility starts, click on the REMOVE ALL PREFERENCE FILES button. Log out, then log back in. When the tablet driver loads, it will create new preferences files with the factory defaults. **Note:** Do not manually remove the PEN TABLET.PREFPANE file from the main LIBRARY PREFERENCEPANES folder. This file is only to be removed when uninstalling the tablet software driver, and then only when using the REMOVE PEN TABLET utility.
The computer does not go to sleep.	When you are not using the pen, remove it from the tablet surface or the tablet will continue to send data, keeping the computer awake.
When using the tablet the screen cursor is very erratic or jumps around.	On rare occasions the tablet may receive interfering radio frequencies from a computer monitor or nearby AM radio station. If you notice interference from a monitor, try moving the tablet at least six (6) inches away from the monitor, or change the monitor refresh rate or monitor resolution.

WINDOWS-SPECIFIC PROBLEMS

After changing right- and left-handed settings in the system's Mouse control panel, the pen tip no longer functions properly.	This will reverse the right and left button settings on your Wacom tools. Restart Windows for your Wacom tool settings to be correctly recognized.

MACINTOSH-SPECIFIC PROBLEMS

At startup, a dialog box appears telling you that either the driver failed to load or the tablet preferences have not yet been created.	The tablet was not detected at startup. Make sure the USB interface cable is securely connected to the tablet and to an active USB port on your computer. Make sure also that the tablet status LED is illuminated. If your tablet is plugged into a USB hub, make sure the hub is connected and active. From the GO menu, select the UTILITIES folder and launch the SYSTEM PROFILER. Select USB from the HARDWARE section of the CONTENTS list. A Wacom USB tablet model should be listed. If a tablet model is not listed, check the USB tablet cable connection or try plugging the tablet into a different USB port. If this does not help, contact Wacom for technical support. See technical support options.
Inkwell does not work correctly with the tablet.	There may be a problem with the Inkwell preferences. Remove the damaged preference files as follows. They will be recreated when you enable handwriting recognition. 1. From the Apple menu, choose SYSTEM PREFERENCES. From the System Preferences menu, choose SHOW ALL and select INK. Then turn off handwriting recognition. 2. From the GO menu, choose your HOME. Open the LIBRARY and PREFERENCES folders. Then remove the following preferences: • com.apple.ink.framework.plist • com.apple.ink.inkpad.plist • com.apple.ink.inkpad.sketch 3. Go back to SYSTEM PREFERENCES and INK, and then enable handwriting recognition. 4. Test the Inkwell function using your pen tablet and pen. 5. If this procedure does not resolve your problem with Inkwell, contact Apple Support for further assistance. Wacom is not the software manufacturer for Inkwell and we are limited in our abilities to support a third party software application.

TECHNICAL SUPPORT OPTIONS

If you have a problem with your pen tablet, first check the tablet installation guide to be sure the unit is installed correctly. Then review the troubleshooting procedures within this manual.

If you cannot find the answer in this manual, you may find updated information about your problem in the Read Me file for your platform (located on the Bamboo One installation CD). You can also check the product FAQs (Frequently Asked Questions) on the Wacom web site for your region.

If you have an Internet connection you can download the latest software drivers from the Wacom web site for your region. See obtaining driver downloads for your region.

If you cannot solve the problem and you think your pen tablet is not working properly, contact the Wacom support staff for the area where your product was purchased. See the pen tablet Read Me file, located on the Bamboo One installation CD, for contact information.

When you call, you should be at your computer with the following information available:

- This manual.
- Tablet serial and model number. (Look on the bottom of the tablet.)
- Driver version number. (See the Bamboo One installation CD or the Pen Tablet control panel.)
- The make and model of your computer, and operating system version number.
- A list of peripheral devices attached to your computer.
- The software application and version you were using when the problem occurred.
- The exact wording of any error message that appeared on your screen.
- What happened and what you were doing when the problem occurred.
- How you tried to solve the problem.

OBTAINING DRIVER DOWNLOADS

Wacom periodically updates the tablet software driver to maintain compatibility with new products. If you are having a compatibility problem between Bamboo One and a new hardware or software product, it may be helpful to download a new pen tablet software driver (when available) from the Internet.

USA, Canada, Central and South America

Worldwide Web:	http://www.wacom.com/productsupport	Driver downloads.

Europe, Middle East and Africa

Worldwide Web:	http://www.wacom.eu	Software updates.
Anonymous FTP Site:	ftp://ftp.wacom.eu/pub/	Software updates.

Japan

Worldwide Web:	http://tablet.wacom.co.jp	Software updates. (Japanese)

Asia Pacific (English)

Worldwide Web:	http://www.wacom-asia.com	Software updates. (English)

China

Worldwide Web:	http://www.wacom.com.cn	Software updates. (Simplified Chinese)

Korea

Worldwide Web:	http://www.wacomdigital.co.kr	Software updates. (Korean)

Taiwan

Worldwide Web:	http://www.wacom.com.tw	Software updates. (Traditional Chinese)

APPENDIX

This section contains information about digital inking, tips on caring for your tablet and pen, instructions on how to uninstall the tablet software, your license and warranty, and more.

Pen and digital ink capabilities in Windows Vista
Caring for your tablet and pen
Uninstalling the tablet software
Product specifications
Product information
Ordering parts and accessories
Radio and television interference
License and Warranties (Worldwide, except for Europe, Africa and Middle East)
License and Warranty (Europe, Africa and Middle East)

PEN AND DIGITAL INK CAPABILITIES IN WINDOWS VISTA

Microsoft Windows Vista provides extensive support for pen* and touch input. When using Bamboo One with a computer running Windows Vista, your experience is enhanced by powerful note taking, handwriting recognition, fast navigation, and other digital inking options designed to give you quick, intuitive results with the Bamboo One pen.

- **Note taking.** Use your Bamboo One pen to jot notes and capture quick sketches in Microsoft Journal. Journal simulates a physical notebook, but with the advantages of digital note taking – you can choose from a variety of pen, marker, and highlighter tools. Journal also includes a powerful search engine that can even locate your handwritten content.
- **Handwriting recognition.** Because Windows Vista includes powerful handwriting recognition capabilities, you can use your Bamboo One pen to quickly enter handwritten information anywhere the computer accepts typed input. You can convert your handwritten content to typed text at any time.
- **Gestures.** Use your Bamboo One pen to make simple gestural movements on the tablet to trigger customizable actions for navigation, editing, and other functions. To customize your gestures, select the FLICKS tab in the PEN AND INPUT DEVICES control panel.
- **Digital Ink in Microsoft Office 2007.** Use your Bamboo One pen to full advantage with the enhanced digital mark-up and inking tools available in Microsoft Office 2007 applications running on Windows Vista. Found on the REVIEW tab within applicable applications, these tools provide a consistent set of inking options. For quick access, you can add specific inking tools to the Quick Access Toolbar located at the top of each application.

Note: The following workarounds have been implemented in the pen tablet driver to improve drawing performance and to minimize spurious double-clicks issued by Vista under the following settings:

- The Vista Flicks and Press-and-hold-to-right-click features were disabled in most graphics applications using the Wintab API.
- There is no pressure sensitivity in Journal and other Vista Ink features when both the Flicks and Press-and-hold-to-right-click features are disabled in the Vista PEN AND INPUT DEVICES control panel.

* Pen features supported in all versions of Windows Vista except Vista Home Basic.

ABOUT THE WINDOWS VISTA TABLET PC INPUT PANEL

The Windows Vista Tablet PC Input Panel enables you to use handwriting or an on-screen keyboard to directly enter text with your Bamboo One pen. There are a number of ways to launch the Input Panel:

- Click on the Input Panel icon which appears when you move the screen cursor into a text entry area.
- Click on the Input Panel tab, located by default on the left edge of the display screen.
- Click on the Tablet PC Input Panel icon located on the Windows taskbar. If the icon is not visible, right-click on the taskbar, select TOOLBARS, and TABLET PC INPUT PANEL.

To customize the Input Panel:

1. First open the Input Panel and then click on TOOLS in the menu bar.
2. Select OPTIONS to open the Input Panel Options dialog box.
3. Customize the Input Panel settings for the way you like to work.

To learn more about using your Bamboo One pen in Microsoft Windows Vista and Office 2007, study the documentation that came with your system and Microsoft Office applications. Be sure to take advantage of the Windows Vista training tools, including the Tablet PC tutorial, available from Microsoft.

You can visit also the Wacom web site at www.wacom.com/vista for additional information on working with your Bamboo One pen in Windows Vista.

CARING FOR YOUR TABLET AND PEN

Keep your Bamboo One pen and tablet surface clean. Dust and dirt particles can stick to your pen and cause excessive wear to the tablet surface. Regular cleaning with a soft, damp cloth will help to prolong the life of your tablet surface and pen; you can also dampen the cloth using a very mild soap diluted with water. Do not use volatile liquids, such as paint thinner or benzene, as they may damage the plastic case.

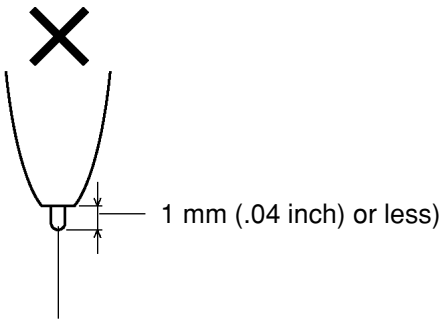
Keep your tablet and pen in a clean, dry place and avoid extremes in temperature. Room temperature is best. Also, your pen and tablet are not made to come apart. Twisting the pen case can break the pen. Taking apart the product will void your warranty.

Important: Take care to never spill liquids onto the tablet or pen. Be especially careful of getting the pen buttons and tip wet – they contain sensitive electronic parts that will fail if liquid enters them.

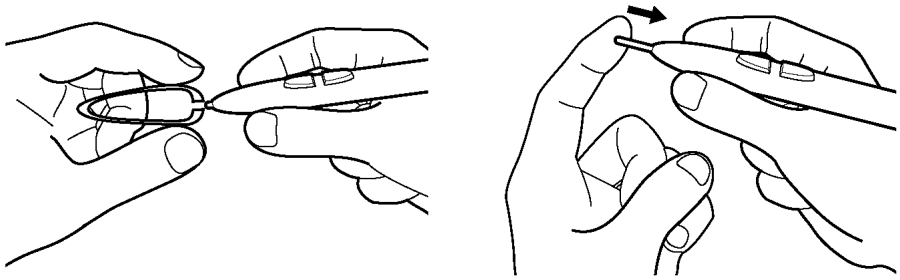
REPLACING THE PEN TIP

The pen tip (nib) will wear with normal use. Replace the pen nib when it gets too short – less than 1 mm (.04 inch) – or develops a flat point.

Clasp the old nib with a tweezer, needle-nosed plier, or similar instrument and pull it straight out of the pen. Then slide the end of the new nib straight into the barrel of the pen – firmly push the nib until it stops.



Pen nib.



Important: When the Bamboo One pen is not in use, place it on the pen rest or lay it flat on your desk. To maintain the sensitivity of your pen, do not store the pen in a container where it will rest on the tip.

Warning: Prevent children from swallowing the pen tip or pen buttons. The pen tip (nib) or pen buttons may accidentally be pulled out if children are biting on them.

To order replacement parts, see ordering parts and accessories.

UNINSTALLING THE TABLET SOFTWARE

Follow the appropriate procedure below to remove the pen tablet driver software from your system.

Important: When you remove the pen tablet software from your system, your pen tablet will no longer operate with full tablet functionality but will continue to function as a mouse device.

Windows Vista: Click on the Windows START button and choose CONTROL PANEL. In the CONTROL PANEL window, click on PROGRAMS AND FEATURES. In the dialog box that appears, choose the TABLET or PEN TABLET option. Click on the UNINSTALL button and follow the prompts to remove the tablet driver. (If prompted, enter your administrator login name and password.)

Windows XP or XP x64: Click START. In the start menu, select CONTROL PANEL. Then select ADD OR REMOVE PROGRAMS. In the ADD OR REMOVE PROGRAMS window, choose TABLET or PEN TABLET and click on the REMOVE button. Follow the prompts to remove the tablet driver.

Windows 2000: Click the Windows START button. Then choose SETTINGS and CONTROL PANEL. In the CONTROL PANEL window, double-click on the ADD/REMOVE PROGRAMS icon. In the dialog box that appears, choose the TABLET or PEN TABLET option. Click on the ADD/REMOVE... button and follow the prompts to remove the tablet driver.

Macintosh: From the GO menu, choose APPLICATIONS and open the PEN TABLET folder. Double-click on the REMOVE PEN TABLET icon and select the REMOVE TABLET SOFTWARE button. Enter your administrator login name and password. After the removal is completed, click OK.

PRODUCT SPECIFICATIONS

GENERAL SPECIFICATIONS

Coordinate resolution	41 lpmm (1040 lpi)
Accuracy, pen	+/- 0.5 mm (0.02 in)
Reading height with pen, average	3 to 5 mm (0.12 to 0.20 in)
Report rate	100 points per second
Communication interface	USB
Connector	USB A
Power requirements	DC 5V, 40 mA or less, from USB port
Operating temperature	5 to 40 degrees C (41 to 104 degrees F)
Storage temperature	-15 to +60 degrees C (14 to 140 degrees F)
Operating relative humidity	20% to 80% noncondensing
Storage relative humidity	20% to 90% noncondensing
Certifications and compliance	FCC Class B, CE, VCCI Class B, BSMI, C-Tick, MIC, GOST-R, CCC, RoHS, Chinese RoHS

BAMBOO ONE TABLET (MODEL CTF-430)

Active area (W x D)	127.6 x 92.8 mm (5.03 x 3.66 in)
Physical size (W x D x H)	195 x 197 x 10.7 mm (7.68 x 7.76 x 0.42 in), including rubber feet
Cable length	1.5 m (4.95 ft)
Weight	300 g (0.66 lb), approximately, including cable
Power consumption	0.2 watts, approximately

BAMBOO ONE PEN (MODEL FP-500)

Physical size (L x D)	148.0 x 12.0 mm (5.83 x 0.47 in)
Pressure levels, pen tip	512 levels
Pen tip travel	0.1 mm (0.004 in), approximately
Weight	10 g (0.02 lb), approximately
Pen tip type	Polyacetal (Part No. PSI-A034), white

PRODUCT INFORMATION

To learn more about Bamboo One, and about which software applications are currently tablet enhanced to support the pressure sensitivity and other special functionality of your pen tablet and pen, visit the Wacom web site for your region:

USA, Canada, Central and South America	http://www.wacom.com/productinfo
Europe, Middle East and Africa	http://www.wacom.eu
Japan	http://tablet.wacom.co.jp
Asia Pacific (English)	http://www.wacom-asia.com
China (Simplified Chinese)	http://www.wacom.com.cn
Korea	http://www.wacomdigital.co.kr
Taiwan	http://www.wacom.com.tw
Thailand	http://www.wacom-thai.com

ORDERING PARTS AND ACCESSORIES

To purchase parts and accessories, refer to the tablet Read Me file and see who to call for your region.

You can also do the following:

- **To purchase parts and accessories in the USA or Canada,** call 1.888.884.1870 (toll-free) or visit Wacom's web site at http://www.wacomdirect.com (USA only).
- **To purchase parts and accessories in Europe,** call +49 (0)180.500.03.75 or send an email to spareparts@wacom.eu. Or, visit the Wacom web site at www.wacom.eu/solutionstore. You can also contact your local dealer, distributor, or technical support using the appropriate number for your region.
- **To purchase parts and accessories in other countries,** please contact your local dealer or distributor.

Please note that not all parts and accessories are available in all regions.

RADIO AND TELEVISION INTERFERENCE

The equipment described in this manual generates, uses, and can radiate radio-frequency energy. If it is not installed and used properly—that is, in strict accordance with Wacom instructions—it may cause interference with radio and television reception.

FCC NOTICE

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

You can determine whether the equipment is causing interference by disconnecting it from your computer. If the interference stops, it was probably caused by the equipment.

If the equipment does cause interference to radio or television reception, you may be able to correct the interference by using one or more of the following measures:

- Rotate the television or radio antenna until the interference stops.
- Move the equipment farther away from the television or radio.
- Plug the equipment and computer into an outlet that is on a different circuit from the television or radio.

If necessary, consult your Wacom dealer or an experienced radio/television technician for help.

Changes or modifications to this product not authorized by Wacom could void the FCC Certification and negate your authority to operate the product.

CE DECLARATION

The Wacom Bamboo™ One digitizing tablet, model CTF-430, has been tested and found to comply with the following harmonized European Norms:

- EN 55024 (electromagnetic immunity)
- EN 55022 Class B (electromagnetic emissions)

Based on the results of these tests, Wacom declares that the above mentioned device conforms to Article 10.1 of the European Council Directive 89/336/EEC, and their amendment Directive 93/68/EEC and indicates this conformity by the CE-sign on each device.

The device must be installed and operated always in strict accordance with the instructions given in this handbook. Any changes or modifications to this product that were not specifically authorized will invalidate this declaration.

LICENSE AND WARRANTIES
(WORLDWIDE, EXCEPT FOR EUROPE, AFRICA AND MIDDLE EAST)

SOFTWARE LICENSE

This legal document is an agreement between you, the end-user, and Wacom Technology Corporation (Wacom).

1. Grant of License. The enclosed product includes computer programs embedded in firmware and accompanying diskette or CD-ROM (the "Software"). The Software is licensed, not sold, to you for use only with Wacom products upon the terms of this license, and Wacom reserves any rights not expressly granted to you. Wacom grants to you a non-exclusive right to use this copy of the Software in conjunction with a Wacom product at a single location.

2. Ownership of Software. Although you may own the product in which the Software is originally recorded, Wacom retains ownership of the Software itself. You acknowledge that the Software is Wacom's property, and contains valuable confidential, unpublished information developed or acquired by Wacom at great expense, including data processing algorithms, innovations and concepts. The Software is protected by copyright and other federal and state laws. You agree to use your reasonable best efforts to protect the Software from unauthorized reproduction, distribution, disclosure, use, or publication.

3. Copy Restrictions. Unauthorized copying of the Software is expressly forbidden.

4. Use Restrictions. You may not decompile, reverse assemble, disassemble or reverse engineer the Software.

5. Termination. This License is effective until terminated. This License will terminate automatically without notice from Wacom if you fail to comply with any provisions of the License.

6. Miscellaneous. This License is governed by the laws of the United States of America and the state of Washington except in Asia Pacific and by the laws of Japan for Asia Pacific.

LIMITED WARRANTY

Wacom warrants the product, to the original consumer purchaser, except for the Software and consumable items such as the pen nibs, to be free from defects in materials and workmanship under normal use and service for a period of one (1) year, from the date of original retail purchase, as evidenced by a copy of the receipt and registration with Wacom within 30 days of purchase.

The Software is licensed "as is." Wacom makes no warranty with respect to its quality or performance. Wacom cannot guarantee you uninterrupted service or the correction of any errors.

Upon discovery of a defect in the product, except in the Software, within the Warranty Period, you should contact Wacom Technical Support via telephone, email, or fax to obtain an RMA (Return Merchandise Authorization) number and instructions for shipping the product to a service location designated by Wacom. You should send the product, shipping charges prepaid, to the designated service location, accompanied by the return authorization number, your name, address and telephone number, proof of purchase date, and a description of the defect. Wacom will pay for return shipping by United Parcel Service or by an equivalent service as chosen by Wacom.

Wacom's sole obligation and entire liability under this warranty shall be, at Wacom's option, either the repair or replacement of the defective product or parts thereof of which Wacom is notified during the Warranty Period; provided, however, that you are responsible for (i) the cost of transportation of the product to the designated service location and (ii) any loss or damage to the product resulting from such transportation.

Wacom shall have no responsibility to repair or replace the product if the failure of the product has resulted from accident, abuse, misuse, negligence, or unauthorized modification or repair, or if it has been handled or stored other than in accordance with Wacom's storage instructions.

Any descriptions, drawings, specifications, samples, models, bulletins, or similar material, used in connection with the sale of the product, shall not be construed as an express warranty that the product will conform or comply with your requirements.

EXCEPT FOR THE LIMITED WARRANTY DESCRIBED ABOVE, THERE ARE NO OTHER WARRANTIES MADE BY WACOM ON THIS PRODUCT. NO ORAL OR WRITTEN INFORMATION OR ADVICE GIVEN BY WACOM, ITS DEALERS, DISTRIBUTORS, AGENTS, OR EMPLOYEES SHALL CREATE A WARRANTY OR IN ANY WAY INCREASE THE SCOPE OF THIS WARRANTY, AND YOU MAY NOT RELY ON ANY SUCH INFORMATION OR ADVICE. THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS, AND YOU MAY ALSO HAVE OTHER RIGHTS WHICH VARY FROM STATE TO STATE.

WACOM LIMITS THE DURATION OF ANY LEGALLY IMPLIED WARRANTIES INCLUDING IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, TO THE DURATION OF WACOM'S EXPRESS WARRANTY. SOME STATES DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS, SO THE ABOVE LIMITATION MAY NOT APPLY TO YOU.

NEITHER WACOM NOR ANYONE ELSE WHO HAS BEEN INVOLVED IN THE CREATION, PRODUCTION, OR DELIVERY OF THIS PRODUCT SHALL BE LIABLE FOR ANY DIRECT, CONSEQUENTIAL, OR INCIDENTAL DAMAGES (INCLUDING DAMAGES FOR LOSS OF BUSINESS PROFITS, BUSINESS INTERRUPTION, LOSS OF BUSINESS INFORMATION AND THE LIKE) ARISING OUT OF THE USE OF OR INABILITY TO USE SUCH PRODUCT, EVEN IF WACOM HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES. SOME STATES DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATION OR EXCLUSION MAY NOT APPLY TO YOU.

In the event that any of the above limitations are held unenforceable, Wacom's liability for any damages to you or any party shall not exceed the purchase price you paid, regardless of the form of any claim.

This Limited Warranty is governed by the laws of the United States of America and the state of Washington.

This Limited Warranty is valid for and only applies to products purchased and used inside the United States (and its territories or possessions) and Canada.

WARRANTY SERVICE IN THE U.S.A. AND CANADA

To obtain Warranty service within the U.S. or Canada contact:

Wacom Technical Support

Phone: 1.360.896.9833

Fax: 1.360.896.9724

Inquiry form: http://www.wacom.com/productsupport/email.cfm

E-mail: support@wacom.com

WARRANTY ON SALES OUTSIDE OF THE U.S.A. AND CANADA

For products purchased or used outside of the United States and Canada, upon discovery of a defect in the product, except in the Software, within the Warranty Period you should contact your local dealer or distributor. In all other respects the terms of the warranty as set forth above apply to such sales.

Wacom Technical Support in Asia Pacific (except Japan and China)

Detailed Asia Pacific Limited Warranty policy and product registration may be found online at http://www.wacom-asia.com

To obtain Warranty service within Asia Pacific, please contact the local Wacom Office, distributor or the Asia Pacific Office in Tokyo.

For local distributor contact information, please visit: http://www.wacom-asia.com/distributor/dist_index.php

Phone: +81-3-3509-1588

Inquiry form: http://club.wacom.co.jp/support-en/servlet/support.user.Swusr200Sv00

Should you have any questions about this Agreement, or if you desire to contact Wacom for any reason, please contact in writing:

In North and South America contact:

Wacom Technology Corporation
1311 S.E. Cardinal Court
Vancouver, Washington 98683
U.S.A.

In Japan contact:

Wacom Co., Ltd.
2-510-1 Toyonodai
Otone-Machi, Kitasaitama-Gun
Saitama, 349-1148
Japan

In Asia Pacific contact:

Wacom Co., Ltd.
Harmony Tower 18F, 1-32-2 Hon-Cho,
Nakano-Ku, Tokyo 164-0012
Japan

In Mainland China (Except Hong Kong) contact:

Wacom China Corporation
1108, Block One, Kuntai International Bldg,
12 Chao Wai Street, Chao Yang District,
Beijing, China 100020
E-mail: support@wacom.com.cn

LICENSE AND WARRANTY
(EUROPE, AFRICA AND MIDDLE EAST)

SOFTWARE LICENSE AGREEMENT

Important Notice to Customers

This product contains copyrighted computer programs (“software”) which are the inalienable intellectual property of Wacom Europe GmbH (“Wacom”). This software is both integrated within the product and also contained on the accompanying data carrier. The purchase of this product from your dealer does not include Wacom’s software and the associated rights of usage. Wacom grants you, the user, the right to use the software solely in accordance with the conditions of this software license agreement. By purchasing this product you agree to the terms of this license.

ENTITLEMENT TO USE THE SOFTWARE

Wacom grants the customer a personal, non-exclusive license to use the software solely in combination with this product and for the proper operation of this product. This license may be transferred only in connection with this product.

The use of this software includes solely the permanent or temporary, complete or partial copying of the software by means of loading, displaying, executing, transmitting or saving for the purpose of executing the commands and data it contains or of observing, examining or testing the functions of the software.

The customer may not license, lease or loan the software to a third party, nor allow a third party to access the software in any other way. The customer may not without prior written authorization from Wacom copy, modify, transmit or edit the software, apart from the actions of copying necessary to create a backup copy and for the purposes outlined in section 2 above.

The customer may not decompile the software; if the software contains interfaces to software which is not supplied by Wacom, Wacom shall make the necessary information available to the customer upon request, provided that the customer can prove his/her entitlement to use the software and that he/she agrees to pay the copying and postage costs.

LIMITED WARRANTY

Wacom warrants to you as the original end-user that the product hardware is free from defects in materials and workmanship under normal use and service for a period of TWO (2) YEARS after the date of purchase (excluding consumable items such as the pen nibs), provided that they are unused at the time of such purchase. Wacom further warrants to you the accompanying data media against defects in materials and workmanship for a period of SIX (6) MONTHS after the date of purchase.

The Software is licensed and distributed “AS IS”. Wacom makes no warranties, expressed or implied, with respect to its quality, performance, merchantability and fitness for a particular purpose (including related manuals and documentation). Wacom cannot guarantee you uninterrupted service or the correction of any errors.

Upon discovery of a defect in the product, except in the Software, within the applicable Warranty Period, you should return them in the original packaging to the place of your original purchase, together with your name, address, telephone number, a description of the problem and a copy of the original invoice. You are responsible for any loss or damage to the product resulting from such transportation. Wacom’s sole obligation and entire liability under this warranty shall be, at Wacom’s option, either the repair or the replacement of product or parts thereof that prove defective and that were returned within the applicable Warranty Period.

Wacom shall have no responsibility to repair or replace the product if (a), in the opinion of Wacom, the failure of the product has resulted from accident, abuse, misuse, negligence, misapplication, or unauthorized modification or repair, or (b) the product has been handled or stored other than in accordance with Wacom's storage instructions, or (c) the failure is due to normal wear and tear, or (d) you fail to fulfill your obligations as described above.

In case that any claim presented under warranty is found upon investigation to be either outside the duration or the scope of this warranty, or in case that the product is found to be not defective, then the cost of such investigation and repair shall be borne by you.

Any descriptions, drawings, specifications, samples, models, bulletins, or similar material, used in connection with the sale of the product, shall not be construed as an express warranty that the product will conform or comply with your requirements.

Should any provision of this agreement be declared invalid, that provision shall be treated as separate from the agreement, and the agreement shall remain in force without limitation in all other respects.

If this product is found to be defective, the purchaser may be entitled to institute legal proceedings against the seller on grounds of liability for deficiency. The statutory rights indicated with regard to the seller are not limited in any way by this warranty. Rather, this warranty affords the purchaser rights in addition to those indicated in the present text.

This limited warranty shall apply if the seller's corporate domicile is in the European Union or in Iceland, Norway, Jersey, Switzerland, Russia, the Ukraine, Rumania, Bulgaria, Croatia, Serbia, Tunisia, Turkey, Syria, the Lebanon, Jordan, Israel, Egypt, the United Arab Emirates, Iran or South Africa.

This Limited Warranty and Liability is governed by the laws of the Federal Republic of Germany.

Should you have any questions about this Agreement, or if you desire to contact Wacom for any reason, please contact in writing:

Wacom Europe GmbH
Europark Fichtenhain A9
47807 Krefeld
GERMANY

GLOSSARY

Active area. The drawing area of the tablet where your Bamboo One pen is detected.

Aspect. The ratio between the vertical and horizontal dimension of the tablet or display.

Click force. The amount of force you must apply to the tip of your pen for a click to occur.

Digital Ink. A broad category that typically describes handwritten content which has been created using pen-based input on a computer. This handwritten content takes the form of sketches, ink mark-up, or handwriting. The handwriting can optionally be converted to typewritten text or simply left alone for use in its original format. Depending on your system and application settings, the handwritten text you make with digital ink can be converted on-the-fly or at another time.

Double-click distance. The maximum distance (in screen pixels) that the cursor can move between clicks and still be accepted as a double-click. Increasing the double-click distance makes double-clicking easier, but may cause a delay in brush strokes in some graphics applications.

Journal. A Microsoft Windows application that electronically simulates a physical journal pad, but with the advantages of digital note-taking. For example, you can create quick sketches and jot handwritten notes that can be converted to text and sent on to colleagues for digital mark-up. Journal includes a variety of pen, marker, and highlighter tools. Additionally, your handwritten content is searchable within Journal.

Mapping. The relationship between your Bamboo One pen position on the tablet and the cursor position on the display screen.

Modifier. Modifier keys include SHIFT, ALT, and CTRL for Windows, or SHIFT, CONTROL, COMMAND, and OPTION for Macintosh. You can customize your Bamboo One pen buttons to simulate a modifier key.

Mouse acceleration. A setting that allows you to adjust the screen cursor acceleration when your Bamboo One pen is in mouse mode.

Mouse mode. A method for positioning the screen cursor. When you place the Bamboo One pen on the tablet, you can move the screen cursor with a “pick up and slide” motion similar to using a traditional mouse. This is known as relative positioning. See also pen mode.

Mouse speed. A setting that allows you to adjust the speed at which your screen cursor moves when your Bamboo One pen is in mouse mode.

Nib. The replaceable pen tip.

Pen mode. A method of positioning the screen cursor. Wherever you place your Bamboo One pen on the tablet, the screen cursor will jump to the same corresponding point on the screen. This is known as absolute positioning, and is the default setting for the Bamboo One pen. Also, PEN MODE allows you to quickly position the screen cursor without having to first find it and then move it across the desktop. See also mouse mode.

Pixel. The smallest unit of measure on your monitor screen.

Pressure sensitive. A quality of the Bamboo One pen tip that senses the amount of pressure being applied. This is used to create natural-looking pen and brush strokes in applications that are pressure sensitive.

Pressure-sensitive application. Any application that supports pressure-sensitive input.

Proximity. The height above the tablet active area where the Bamboo One pen is detected. Refer also to the pointing section.

Screen cursor. The pointer on the display screen. Screen cursors come in different shapes (such as an I-beam, arrow, or box), depending on which application you are running.

Tablet PC Input Panel (TIP). The Microsoft Windows Vista Tablet PC Input Panel enables you to use your Bamboo One pen to create handwritten notes or work with an on-screen keyboard. The Input Panel dynamically converts your handwriting to text. The information you create can then be inserted into other documents, spreadsheets, or illustrations. See also pen and digital ink capabilities in Windows Vista.

USB. Universal Serial Bus. A hardware interface standard for connecting computer peripheral devices. USB ports support hot-plugging, which allows you to connect or disconnect a USB device without turning off your computer.

Wintab. An interface standard used by Windows applications for receiving tablet information. Bamboo One supports all Wintab-compatible applications under Windows.

INDEX

About the manual 4
Accessories and parts, ordering 44
Active area 11
Bamboo One, working with 6
Button functions 22
Care, for tablet and pen 41
CE declaration 45
Click sound 13
Clicking, with pen 13
Control panel
  opening 17
  overview 18
  settings 18
Customizing
  acceleration 29
  double-click 20
  pen 19
  pen buttons 21
  speed 29
  tip feel 20
Digital inking capabilities 39
Double-click, customizing 20
Double-clicking, how to 13
Dragging, with pen 13
Drawing with pressure 15
Driver downloads, obtaining 37
Environmental conditions 41
Eye-hand coordination exercise 15
FCC notice 45
Features
  pen 7
  tablet 6
Functions, button 22
General problems, troubleshooting 32
Holding the pen 10
Information, product 44
Interference, radio and television 45
Macintosh-specific problems, troubleshooting 35
Manual, about 4
Mapping, to multiple monitors 28
Mouse speed, setting 29
Nib, replacing 41
Ordering parts and accessories 44
Overview, control panel 18
Parts and accessories, ordering 44
Pen
  clicking with 13
  customizing 19
  double-clicking with 13
  dragging with 13
  holding 10
  pointing 12
  replacing the tip 41
  using 9
  using pen buttons 14
  writing and sketching with pressure 15
Pen buttons
  customizing 21
  using 14
Pen, testing 31
Pointing, with pen 12
Pressure, writing and sketching with 15
Product information 44
Proportions and scale 27
Radio and television interference 45
Scale and proportions 27
Settings, control panel 18
Software
  driver downloads 37
  uninstalling 42
Specifications
  general 43
  pen 43
  product 43
  tablet 43

Tablet
features 6
mapping
area 27
for portion of screen area 28
for portion of tablet area 29
to multiple monitors 28
scale and proportions 27
storing 41
testing 31
tracking 26
working with 16
Technical support options 36
Testing
pen 31
tablet 31
Tip feel, customizing 20
Tip, replacing 41
Tracking, tablet 26
Troubleshooting 30
general problems 32
Macintosh-specific problems 35
tables 32
Windows-specific problems 34
Uninstalling tablet software 42
Windows-specific problems, troubleshooting 34
Work area, setting up 8
Working with Bamboo One 6
Writing with pressure 15

WACOM INTERNATIONAL OFFICES

Wacom Technology Corporation

1311 S.E. Cardinal Court
Vancouver, WA 98683
U.S.A.
Telephone
General: +1.360.896.9833
Fax: +1.360.896.9724

Wacom Co., Ltd.

2-510-1 Toyonodai
Otone-Machi, Kitasaitama-Gun
Saitama, 349-1148
Japan
Internet: http://tablet.wacom.co.jp

Wacom China Corporation

1108 Block One, Kuntai International Bldg,
12 Chao Wai Street, Chao Yang District,
Beijing, China 100020
Telephone
General: +86.10.5879.0880
Fax: +86.10.5879.0102

Wacom Australia Pty. Ltd.

Level 5, 18 Orion Rd,
Lane Cove West NSW 2066, Australia

Telephone
General: +61.2.9422.6700
Fax: +61.2.9420.2272

Wacom Europe GmbH

Europark Fichtenhain A9
47807 Krefeld
Germany
Telephone
General: +49.(0)2151.3614.0
Fax: +49.(0)2151.3614.111

Wacom Co., Ltd.

Asia Pacific Office
Harmony Tower 18F, 1-32-2 Hon Cho,
Nakano-Ku, Tokyo 164-0012
Japan
Telephone
General: +81.3.5309.1513
Fax: +81.3.5309.1514

Wacom Digital Solutions Co., Ltd.

Gangnam Telepia B/D 9th Fl, 662-18
Yeoksam-dong, Gangnam-gu, Seoul, 135-080
Korea
Telephone
General: +82.2.557.3894
Fax: +82.2.557.3895

Wacom Singapore Pte. Ltd. (Singapore)

3 Bishan Place,
CPF Bishan Building #06-08
Singapore 579838
Telephone
General: +65.6258.8640
Fax: +65.6258.8697